

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a mobile communication terminal continuously transmitting a general control channel signal and intermittently transmitting a specific control channel signal, a power control method comprising:

temporarily increasing a power of a general control channel to a power level requested to demodulate a specific control channel ~~once-if~~ transmission of the specific control channel signal is executed; and

~~adjusting~~ decreasing the increased power to meet a power level requested by a current general control channel transmission if the specific control channel transmission is completed.

2. (Currently Amended) The power control method of claim 1, wherein the ~~adjusting~~ further decreasing comprises:

removing a power level increment from the increased power; and
re-adjusting the increased power from which the power level increment is removed to the power level requested by the current general control channel transmission.

3. (Original) The power control method of claim 2, wherein the power level increment is removed by an equation of {[increased power] + [-d x ΔTPC]}, wherein ‘d’ is a value of deducing the increment of the power of the general control channel and ‘ΔTPC’ is power intensity increasing or decreasing according to unit power level.

4. (Original) The power control method of claim 2, wherein the power level increment is removed by an equation of ‘(increased power) – Max{0, [d-f(K_intv)]}’, wherein ‘K_intv’ is a number of slots from a time point of ending a current specific control channel transmission to a time point of initiating a next specific control channel transmission, ‘f(K_intv)’ is an arbitrary function using ‘K_intv’ as a factor, and ‘Max{a, b}’ is a function of selecting the greater of ‘a’ or ‘b’.

5. (Previously Presented) The power control method of claim 2, wherein the re-adjusting is carried out using an equation of ‘(power – d) + [TPC_comb(HS_end) + y] x ΔTPC’, wherein ‘TPC_comb(HS_end)’ is a power control value found by using power control commands collected from base stations in soft handover for a slot after completion of HS-DPCCH signal transmission, ‘ΔTPC’ is power intensity increasing or decreasing according to unit power level, and ‘y’ is a value for compensating power control error occurring due to abrupt power reduction.

6. (Original) The power control method of claim 2, wherein the re-adjusted power includes a value for compensating power control error occurring due to abrupt power reduction.

7. (Original) The power control method of claim 6, wherein the value for compensating the power control error is 0.

8. (Original) The power control method of claim 6, wherein the value for compensating the power control error is 1.

9. (Original) The power control method of claim 6, wherein the value for compensating the power control error is TPC_comb(HS_start) and wherein ‘TPC_comb(HS_start)’ is a power control value found by using power control commands collected from base stations in soft handover for a slot after completion of HS-DPCCH signal transmission.

10. (Original) The power control method of claim 6, wherein the value for compensating the power control error is [TPC_comb(HS_start)+1] and wherein ‘TPC_comb(HS_start)’ is a power control value found by using power control commands collected from base stations in soft handover for a slot after completion of HS-DPCCH signal transmission.

11. (Currently Amended) The power control method of claim 1, wherein the specific control channel is a HS-DPCCH (high speed-dedicated physical control channel (HS-DPCCH)) in a HSDPA system and the general control channel is DPCCH (dedicated physical control channel (DPCCH)).

12. (Original) The power control method of claim 1, wherein the terminal is in soft handover.

13. (Currently Amended) The power control method of claim 12, wherein the terminal performs HSDPA (high speed downlink packet access (HSDPA) service).

14. (Currently Amended) The power control method of claim 1, wherein the adjusted decreased power is applied to transmission of a first slot section after completion of the specific control channel transmission.

15. (Previously Presented) The power control method of claim 1, wherein a power level requested by the current general control channel transmission is found by an equation of ' $\Delta_{DPCCH} = (-d \times \Delta_{TPC}) + [TPC_{comb}(HS_end) + y] \times \Delta_{TPC}$ ', wherein 'd' is a value of deducing a general control channel power increment required for transmitting the specific control channel signal, 'TPC_comb(HS_end)' is a power control value found by using power control commands collected from base stations in soft handover for a slot after

completion of HS-DPCCH signal transmission, ‘ Δ TPC’ is power intensity increasing or decreasing according to a unit power level, and ‘y’ is a value for compensating power control error occurring due to abrupt power reduction.

16. (Currently Amended) A method of adjusting uplink ~~DPCCH~~ (dedicated physical control channel (DPCCH)) transmission power for a terminal in soft handover that transmits a DPCCH using a first power control method, the adjusting method comprising:

applying a second power control method to the DPCCH transmission for at least a K_algo1 number of slots upon completion of ~~HS-DPCCH~~ (high speed dedicated physical control channel (HS-DPCCH)) transmission.

17. (Previously Presented) The method of claim 16, further comprising applying, after completion of HS-DPCCH transmission, the first power control method beginning from a boundary of a first N slot group or a first M x N slot group appearing after a (K_algo1)th slot.

18. (Original) The method of claim 16, wherein a region operating under the second power control method is dynamically reduced.

19. (Original) The method of claim 17, wherein a region operating under the second power control method is dynamically reduced.

20. (Currently Amended) A method of adjusting uplink transmission control power for a terminal, the method comprising:

increasing a first uplink transmission power up to a second uplink transmission power such that a high speed control channel can be transmitted; and

forcibly decreasing the second uplink transmission power back to the first uplink transmission control power after transmission of the high speed channel is completed.

21. (Currently Amended) The method of claim 20, wherein the first uplink transmission power is related to a ~~DPCCH~~ (dedicated physical control channel) (DPCCH) transmission power.

22. (Currently Amended) The method of claim 20, wherein the high speed control channel is a ~~HS-DPCCH~~ (high speed dedicated physical control channel) (HS-DPCCH).

23. (Currently Amended) The method of claim 20, wherein the forcibly decreasing includes compensation for power control errors.

24. (Currently Amended) The method of claim 20, wherein the forcibly decreasing is applied by the terminal for a plurality of slots.

25-26. (Canceled)

27. (Previously Presented) The method of claim 20, wherein the second uplink transmission power is related to a high-speed dedicated physical control channel (HS-DPCCH) transmission power.

28. (Currently Amended) A method of transmission on an uplink control channel for a terminal, the method comprising:

adjusting an uplink transmission power from a first power level to a second power level; and

performing transmission on a high-speed control channel using the adjusted uplink transmission power; and

re-adjusting the uplink transmission power from the second power level to the first power level after completing transmission on the high-speed control channel.

29. (Previously Presented) The method of claim 28, wherein the first power level is appropriate for a general control channel transmission power and the second power level is appropriate for the high-speed control channel transmission power.

30. (Previously Presented) The method of claim 29, wherein the general control channel is a DPCCH.

Serial No. **10/700,041**
Reply to Office Action dated April 18, 2007

Docket No. **P-0613**

31. (Previously Presented) The method of claim 29, wherein the high-speed control channel is a HS-DPCCH.